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VIX	A	Karen Gheesling MULLIS	et al., "Cha	aracterization and Immunolocalization of I	Bovine N-	Acetylgluco	osamine-1-phosphodiester		
	200	α-N-Acetylglucosaminidas	se", The Jo	urnal of Biological Chemistry, Vol. 269, N	o. 3, Issue	of Januar	y 21, pp. 1727-1733, 1994		
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M	AW	KORN 1-phor	FELD, R. et al. "I phodiester alpha-	Molecular Clo N-Acetylgluco	ning and Functio esaminidase" J. E	nal Expression of Ty Biol. Chem., Novem	wo Splice Form ber 1999. Vol.	ns of Humar 274, No. 46	n N-Acetylglucosamine- 5, pages 32778-32785
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(MP	AX V	CUOZ Chem.	ZO, J. W. et al. " , May 1994. Vol.	Lysine is a Co 269. No. 20.	ommon Determin Pages 14490-14	ant for Mannose Ph 496.	osphorylation (	of Lysosoma	al Proteins" J. Biol.
- M	<u> </u>	KORN	FELD, S. "Traffic	king of Lysos	omal Enzymes in	Normal and Disease	se States" I C	lin Invest	Vol. 77, January 1986,
	AY J	pp. 1-6	5.	g or Lyodo		THOMAI and Diseas	se Glales , J. C	iiii. iiivest.,	Voi. 11, January 1900,
al	AZ Q/	KORN Decen	FELD, S. "Lysos nber 1989, Vol. 1	omal Enzyme 8. pp. 367-37	Targeting", Bioc	hemical Society Tra	nsactions, Jub	ilee Lecture	Delivered on 19
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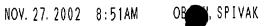


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M	AA	6,118,045	09/12/045	REUSER ET AL	800	14	
	AB	5,939,279	08/17/99	SMITH	438	7.32	
	AC	5,932,211	08/03/99	WILSON ET AL	424	046	
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1 <sub>M</sub>	AM	5,911,704	06/15/99	HUMES	804	93	
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	AX	SLY, "The Missing Link in 564, March 2000	n Lysosomal	Enzyme Targeting", The Journal of Cl	Inical Investiç	gation, Vol.	105, No. 5, Pages 563-
(	AY	Reas-Rothschild et al., " Clinical Investigation, Vo	Molecular Bas I, 105, No. 5,	sis of Variant Pseudo-Hurler Polydystr pp. 673-681, March 2000	ophy (Mucali	pidosis IIIC	")", The Journal of
M	AZ	Bao et al., "Bovine Udp-N Journal of Biological Che	N-Acetylgluco mistry, Vol, 2	samine: Lysosomal-Enzyme N-Acetyl 71, No. 49, pp. 31448-31461, Decemi	glucosamine per 6, 1996	-1- Phosph	otransferase*, The
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SHEET OF 11 SERIAL NO. 64/975 177 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY DOCKET NO. Form PTO 1449 (Modified) 210119US0CONT APPLICANT LIST OF REFERENCES CITED BY APPLICANT William M. CANFIELD FILING DATE GROUP HEREWITH **U.S. PATENT DOCUMENTS** EXAMINER DOCUMENT SUB FILING DATE DATE NAME CLA88 INITIAL NUMBER CLASS IF APPROPRIATE BA 5,895,833 04/20/99 BERG 5,879,937 88 03/09/99 RONCAROLO BC 5,874,297 02/23/99 WU ET AL BD 5,871,946 02/16/99 LUCAS ET AL 5,861,491 01/19/99 NUIJENS ET AL BF 5,858,755 01/12/99 LOWE BG 5,858,744 01/12/00 BAUM ET AL BH 5,858,351 01/12/99 PODSAKOFF ET AL ВІ 5,854,207 12/29/98 LEE ET AL Bj 5,851,7B2 12/22/98 HANNUN ET AL BK 5,849,885 12/15/98 NUYENS ET AL 8L 5,840,578 11/24/98 DESNICK BM 5,830,916 11/03/98 HANNUM ET AL BN 5,830,850 11/03/98 GELB ET AL FOREIGN PATENT DOCUMENTS DOCUMENT TRANSLATION DATE COUNTRY NUMBER YES NO BO 8P BQ BR B**S** BT BU BV OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) KORNFIELD, "Purification and Multimeric Structure of Bovine N-Acetylglucosamine-1-Phosphodiester σ-N-BW Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 273, No. 38, pp. 23203-23210, September 4, 1998 BX BY ΒZ Examiner Date Considered Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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$\mathcal{M}$	CA	5,830,711	11/03/98	BARANY ET AL	478	97.1	1
61	CB	5,807,943	09/15/98	LEE ET AL	526	239,2	
	CC	5,798,448	08/25/98	CARAS ET AL	576	3881	
	CD	5,798,239	08/25/98	WILSON ET AL	435	183	
	CE	5,792,647	08/11/98	ROSEMAN ET AL	435	2527	
	CF	5,773,236	06/30/98	DIWU ET AL	1270	18	
	CG	5,759,775	06/02/98	CARAS ET AL	48+	6	
	СН	5,750,172	05/12/98	MEADE ET AL	Ush	530	· · · · · · · · · · · · · · · · · · ·
	CI	5,741,957	04/21/98	DEBOER ET AL	800	2	
	CJ	5,736,360	04/07/98	GAULTON ET AL	195	69,1	` .
	СК	5,728,381	03/17/98	WILSON ET AL	4.14	897	
	CL	5,723,585	03/03/98	BAKER ET AL	530	W/3	- 1
	СМ	5,721,367	02/24/98	KAY ET AL	800	111	<u>,</u>
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(8/11)	DA	5,716,614	02/10/98	KATZ ET AL	424	947		
/ N _	DB	5,707,865	01/13/98	KOHN ET AL	435	325		
	DC	5,704,910	06/06/98	HUMES	604	52		
	DD	5,696,001	12/09/97	HABENSTEIN	476	518		
	DE	5,693,622	12/02/97	WOLFF ET AL	514	44		
	DF	5,691,181	11/25/97	LOWE	435	2401		
	Ö	5,686,240	11/11/97	SCHUCHMAN ET AL	435	6	<u> </u>	
	DH	5,679,545	10/21/97	BAKER ET AL	435	64.1		
	ō	5,665,366	09/09/97	RAWLINGS ET AL	VIK	Yo/		
	2	5,663,254	09/02/97	LEE ET AL	576	2.78. 2		
	DK	5,663,078	09/02/97	ROSTOKER ET AL	129	it		
	DL	5,658,567	08/19/97	CALHOUN ET AL	424	94,61	<u> </u>	
17	DM	5,648,335	07/15/97	LEWIS ET AL	ZIV	10	<del></del>	
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	EA	5,639,939	06/17/97	McCUNE, III	900	2	
0/2	EB	5,639,607	08/17/97	DESNICK ET AL	435	6	*
	EC	5,633,261	05/27/97	DIME	514	299	
	ED	5,633,228	05/27/97	LEWIS ET AL	514	12	
	EE	5,627,171	05/08/97	PARK ET AL	374	114	
	EF	5,627,073	05/06/97	BAKER ET AL	435	13/	·
	EG	5,624,806	04/29/97	BAKER ET AL	475	27	
	EH	5,621,106	04/15/97	DIME	941	187	-
	EI	5,612,206	03/18/97	VALERIO ET AL	275	112/2	
	EJ	5,585,247	12/17/96	HABENSTEIN	421	18	
	EK	5,583,160	12/10/96	IGARASHI ET AL	514	819	<del></del>
	EL	5,578,479	11/26/96	LADERMAN ET AL	V28	202	
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	FA	5,571,675	11/05/96	BAKER ET AL	V75		
7	FB	5,569,648	10/29/96	LEWIS ET AL	74	12	
	FC	5,565,362	10/15/96	ROSEN	474	320,1	
	FD	5,554,366	09/10/96	RAWLINGS ET AL	KOK	19.03	
	FE	5,545,402	08/13/96	WATKINSON	E.K	92 /2	
	FF	5,534,615	07/09/96	BAKER ET AL	376	350	
	FG	5,512,471	04/30/96	SMITH	X35	208	
	FH	5,501,957	03/26/96	DENNIS ET AL	435	15	-
	FI	5,494,810	02/27/96	BARANY ET AL	Une	015	
	FJ	5,491,075	02/13/96	DESNICK ET AL	731	69.7	
	FK	5,475,095	12/12/95	MYEROWITZ	521	27.1	
	FL	5,466,809	11/14/95	DIME	314	(33	
N	FM	5,449,604	09/12/95	SCHELLENBERG ET AL	435	6	
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ין ש	GB	5,433,946	07/18/95	ALLEN, JR. ET AL	424	94.7	
	GÇ	5,420,112	05/30/95	LEWIS ET AL	514	12	
	GD	5,405,751	04/11/95	RONCAROLO	X35	7,24	
	GE	5,382,524	01/17/95	DESNICK ET AL	475	200	
	GF	5,366,883	11/22/94	ASADA ET AL	475	202	
	GG	5,362,628	11/08/94	HAUGLAND	1230	18	
	GH	5,344,352	09/06/94	HORNE ET AL	145	24	
	Gi	5,316,906	05/31/94	HAUGLAND ET AL	135	4	
	GJ	5,310,646	05/10/94	WHITLEY	135	<del>/</del>	-
	GK	5,296,365	03/22/94	OVERBEEKE ET EA	V57	208	
	GL	5,281,394	01/25/94	HOLUB	422	65	··
10	GM	5,260,447	11/09/93	NAKAJIMA ET AL	5×g	222	
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APPLICANT   William M. CANFIELD	Form PTO 1449 (Modifica)		U.S. DEPARTMENT O PATENT AND TRADE	F COMMERCE MARK OFFICE	ATTY DOCKET NO. 2100119US0CO	NT	SERIAL N	IO. ON/891 1772 J.S. APPLIDATION		
U.S. PATENT DOCUMENTS   U.S. PATENT DOCUMENTS	LIST OF	REFE	RENCES CITED BY APP	LICANT		lliam M. CANI	FIELD	FIELD		
DOCUMENT   DATE   NAME   CLASS   SUB   FILING DATE   NAME   S.217,665   O1/08/93   MYEROWITZ   U.   U.   U.   U.   U.   U.   U.   U							GROUP 1659			
NUMBER   DATE   NAME   CLASS   CLASS   IF APPROPRIATE		-			U.S. PATENT DOCUMENTS					
HB 5,208,148	EXAMINER INITIAL			DATE	NAME	CLASS				
HB   5,208,148   05/04/93   HAUGLAND ET AL   1/3	11/1	HA	5,217,865	01/08/93	MYEROWITZ	430	6			
HD   5,179,023   01/12/93   CALHOUN ET AL   1/3   320//     HE   5,166,320   11/24/92   WU ET AL   5/30   5/9     HF   5,143,841   09/01/92   HIRABAYSHI ET AL   1/3   1/2     HG   5,126,247   06/30/92   PALMER ET AL   1/3   1/2     HH   5,089,392   02/18/92   MILLER ET AL   1/3   1/2     HI   5,802,776   01/21/92   OVERBEEKE ET AL   1/3   1/2     HJ   5,077,200   12/31/91   HABENSTEIN   1/3   1/2     HK   5,075,231   12/24/91   MOREAU ET AL   1/3   1/3     HK   5,080,428   10/29/91   ARTHUR, JR. ET AL   1/3   1/2     HM   5,080,428   10/29/91   ARTHUR, JR. ET AL   1/3   1/2     HN   5,015,470   05/14/91   GIBSON   1/2   1/2     FOREIGN PATENT DOCUMENTS   TRANSLATION   YES   NO	r <sub>l'</sub>	НВ	5,208,148	05/04/93	HAUGLAND ET AL	47-	14			
HE   5,166,320   11/24/92   WU ET AL   530   395     HF   5,143,841   09/01/92   HIRABAYSHI ET AL   435   117     HG   5,126,247   06/30/92   PALMER ET AL   435   117     HH   5,088,392   02/18/92   MILLER ET AL   435   172.7     HI   5,802,778   01/21/92   OVERBEEKE ET AL   435   172.7     HJ   5,077,200   12/31/91   HABENSTEIN   435   172.7     HK   5,075,231   12/24/91   MOREAU ET AL   435   172.7     HL   5,081,025   10/29/91   MATTES ET AL   435   172.7     HM   5,060,428   10/29/91   ARTHUR, JR. ET AL   52   1/25.6     HN   5,015,470   05/14/91   GIBSON   424   60     FOREIGN PATENT DOCUMENTS   TRANSLATION   YES   NO		НС	5,205,917	04/27/93	KLOCK, JR.	254	1828			
HE   5,166,320   11/24/92   WU ET AL   530   395     HF   5,143,841   09/01/92   HIRABAYSHI ET AL   435   427     HG   5,126,247   06/30/92   PALMER ET AL   435   427     HH   5,089,392   02/18/92   MILLER ET AL   435   27     HI   5,802,778   01/21/92   OVERBEEKE ET AL   435   172.7     HJ   5,077,200   12/31/91   HABENSTEIN   475   177.7     HK   5,075,231   12/24/91   MOREAU ET AL   435   435   435     HL   5,061,025   10/29/91   MATTES ET AL   425   435   435     HM   5,060,428   10/29/91   ARTHUR, JR. ET AL   52   725   50     HN   5,015,470   05/14/91   GIBSON   424   72     FOREIGN PATENT DOCUMENTS   TRANSLATION   YES   NO		HD	5,179,023	01/12/93	CALHOUN ET AL	435	3201			
HF   5,143,841   09/01/92   HIRABAYSHI ET AL   1/3   1/2   1/3		HE	5,166,320	11/24/92	WU ET AL	530				
HH   5,089,392   D2/18/92   MILLER ET AL   475   2/1     HI   5,802,778   O1/21/92   OVERBEEKE ET AL   475   1/2.7     HJ   5,077,200   12/31/91   HABENSTEIN   475   1/4     HK   5,075,231   12/24/91   MOREAU ET AL   475   1/4     HL   5,061,025   10/29/91   MATTES ET AL   475   1/2.7     HM   5,080,428   10/29/91   ARTHUR, JR. ET AL   52   1/2.7     HN   5,015,470   O5/14/91   GIBSON   474   475   476     FOREIGN PATENT DOCUMENTS   TRANSLATION   YES   NO		HF	5,143,841	09/01/92	HIRABAYSHI ET AL	7.4	213	**		
HH   5,088,392   D2/18/92   MILLER ET AL   1/3   7/     HI   5,802,778   D1/21/92   OVERBEEKE ET AL   1/3   1/2.7     HJ   5,077,200   12/31/91   HABENSTEIN   1/3   1/4     HK   5,075,231   12/24/91   MOREAU ET AL   1/3   1/3     HL   5,061,025   10/29/91   MATTES ET AL   1/3   1/2     HM   5,060,428   10/29/91   ARTHUR, JR. ET AL   1/3   1/2     HN   5,015,470   D5/14/91   GIBSON   1/4   1/2     FOREIGN PATENT DOCUMENTS   TRANSLATION   YES   NO     HO   HO   TRANSLATION   YES   NO		HG	5,126,247	06/30/92	PALMER ET AL	112	25			
Hi 5,802,778   01/21/92 OVERBEEKE ET AL   735   172.7     HJ 5,077,200   12/31/91   HABENSTEIN   736   1/4     HK 5,075,231   12/24/91   MOREAU ET AL   1/23   1/4     HL 5,061,025   10/29/91   MATTES ET AL   1/2   1/2     HM 5,060,428   10/29/91   ARTHUR, JR. ET AL   1/2   1/2   1/2     HN 5,015,470   05/14/91   GIBSON   1/24   1/2     FOREIGN PATENT DOCUMENTS   TRANSLATION YES   NO     HO		НН	5,089,392	02/18/92	MILLER ET AL	475				
HJ   5,077,200   12/31/91   HABENSTEIN   17/3   11/2   1		Hi	5,802,778	01/21/92	OVERBEEKE ET AL		<del></del>			
HK   5,075,231   12/24/91   MOREAU ET AL   135   (18)     HL   5,061,025   10/29/91   MATTES ET AL   172 7     HM   5,060,428   10/29/91   ARTHUR, JR. ET AL   52   /25,6     HN   5,015,470   05/14/91   GIBSON   1/24   (0)     FOREIGN PATENT DOCUMENTS   TRANSLATION   YES   NO     HO   HO   HO   HO   HO   HO   HO		HJ	5,077,200	12/31/91	HABENSTEIN	<del></del>	1			
HL 5,061,025   10/29/91   MATTES ET AL   1/2 7   1/2		НК	5,075,231	12/24/91	MOREAU ET AL	7.70	148	<del></del>		
HM   5,060,428   10/29/91   ARTHUR, JR. ET AL		HL	5,061,025	10/29/91	MATTES ET AL	6/2	100			
HN   5,015,470   05/14/91   GIBSON   4/24   / C	(A	НМ	5,060,428	10/29/91	ARTHUR, JR, ET AL		12.5	<del></del>		
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Form PTO 1449 (Modified)		U.S. DEPARTMENT PATENT AND TRAD	OF COMMERCE EMARK OFFICE	ATTY DOCKET NO. 210119US0CO	NT	SERIAL NO	o Medel lastini
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
//N	IA	5,001,072	03/19/91	OLSON	498	500	*
رال م	IB.	4,997,760	03/05/91	HIRABAYASHI ET AL	135	221	
	IC	4,987,223	01/22/91	CHOAY ET AL	536	111	·
	ID	4,986,274	01/22/91	STEPHENS	128	668,18	
	IE	4,981,801	01/01/91	SUZUKI ET AL	435	246	
	(F	4,975,441	12/04/90	GIBSON	514	328	· · · · · · · · · · · · · · · · · · ·
	IG	4,866,042	09/12/89	NEUWELT	5/4	H-	
	IH	4,851,390	07/25/89	MORISHIGE	SIK	44	
	11	4,798,169	01/17/89	ROSEN ET AL	1/1	1	
	IJ	4,749,570	06/07/88	POZNANSKY	12-14	942	
	ΙK	4,659,817	04/21/87	GALLOP ET AL	51	141	
	IL	4,639,420	01/27/87	SCHAFFNER	125	3 5 1	
10	IM	4,615,884	10/07/86	HARSHMAN	424	92	
M	IN	4,595,015	08/17/86	JANSEN ET AL	528	119	
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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF PATENT AND TRADE	F COMMERCE MARK OFFICE	ATTY DOCKET NO. 210119US0CONT		SERIAL N	J.S. APPLICATION
LIST OF	REFE	RENCES CITED BY APPL	LICANT	APPLICANT Willia	m M. ÇANI	FIELD	
				FILING DATE HEREWITH		GROUP	1652
				U.S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
C.	JA	4,496,722	01/29/85	GALLOP ET AL	575	69	
	JB	4,492,761	01/08/85	DURACK	476	579	
	JC	4,474,770	10/02/84	LORMEAU ET AL	424	187	
	JD	4,452,794	06/05/84		12×	240	
	JE	4,433,946	02/28/84	CHRISTIANSON ET AL	466	43	
	JF	4,431,737	02/14/84	OLIVIERI ET AL	435	208	
	1G	4,401,758	08/30/83	LORMEAU ET AL	435	84	
	JH	4,401,662			12X	187	
	11	4,332,694	06/01/82	WHISTLER	435	99	
	IJ	4,328,215	05/04/82	BUEDING	V24	186	
	JK	4,195,126	12/23/80	HALL	435	//	<u> </u>
	JL	4,156,013	03/22/79	BRUINVELS ET AL	424	3/4	
	JM	4,140,107	02/20/79	LANCEE ET AL	125	211	-
NM	JN	3,972,777	08/03/76	YAMADA ET AL	195	1619	- <del> </del>
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SHEET 11 OF 11 ATTY DOCKET NO. SERIAL NO. 0 /34 / 612 NEW U.S. APPLICATION Form PTO 1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE SERIAL NO. 2100119US0CONT APPLICANT LIST OF REFERENCES CITED BY APPLICANT William M. CANFIELD **FILING DATE** GROUP HEREWITH U.S. PATENT DOCUMENTS **EXAMINER** DOCUMENT SUB FILING DATE DATE NAME CLASS INITIAL NUMBER CLASS IF APPROPRIATE AA 3.986.555 08/29/76 ARNAUD ET AL AB 3,957,578 05/18/76 NARITA ET AL AC RE35,770 04/14/98 LORMEAU ET AL AD. 5,773,278 06/30/98 SCHUCHMAN ET AL 5,798,366 08/25/98 PLATT ET AL AF 5.635.369 06/03/97 WU ET AL AG 5,968,502 10/19/99 TRECO ET AL AH 5,055,401 10/08/91 LILJESTROEM ET AL Αl 5,202,253 04/13/93 ESMON ET AL AJ 5,929,304 07/27/99 RADIN ET AL ΑK 5,580,757 12/03/96 DESNICK ET AL 5,356,804 AL 10/18/94 DESNICK ET AL AΜ 5,401,650 03/28/95 DESNICK ET AL ΑN FOREIGN PATENT DOCUMENTS DOCUMENT TRANSLATION DATE COUNTRY NUMBER YES AO AP AQ AR AS AT ΑU ΑV OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) AW ΑX AY ΑZ Examiner Date Considered Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.